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194

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COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

SIXTH FLOOR
PRUDENTIAL BUILDING
195 NORTH TERRACE
ADELAIDE

RURAL PRODUCTION

SOUTH AUSTRALIA

YEAR ENDED 31ST MARCH 1964

SCOPE

This bulletin summarizes detailed information published in the Bulletins "Livestock, 31st March 1964" and "Cereals, Season 1963-64" recently issued from this Bureau, and shows in addition particulars concerning areas and yields of other crops, rural employment, use of artificial fertilizers, machinery on rural holdings, and direct oversea exports of rural produce. It also lists some South Australian records associated with rural production.

AREA AND UTILIZATION OF HOLDINGS

The total area of holdings increased during 1963-64 to 158,905,000 acres. The area of 12,068,000 acres under cultivation (crops, sown pastures, and fallow) was 620,000 acres more than the previous highest of 11,448,000 acres in 1962-63. The total area of crops increased from 4,932,000 acres in 1962-63 to 5,380,000 acres, the increase being mainly in the areas devoted to growing grain, hay, and forage.

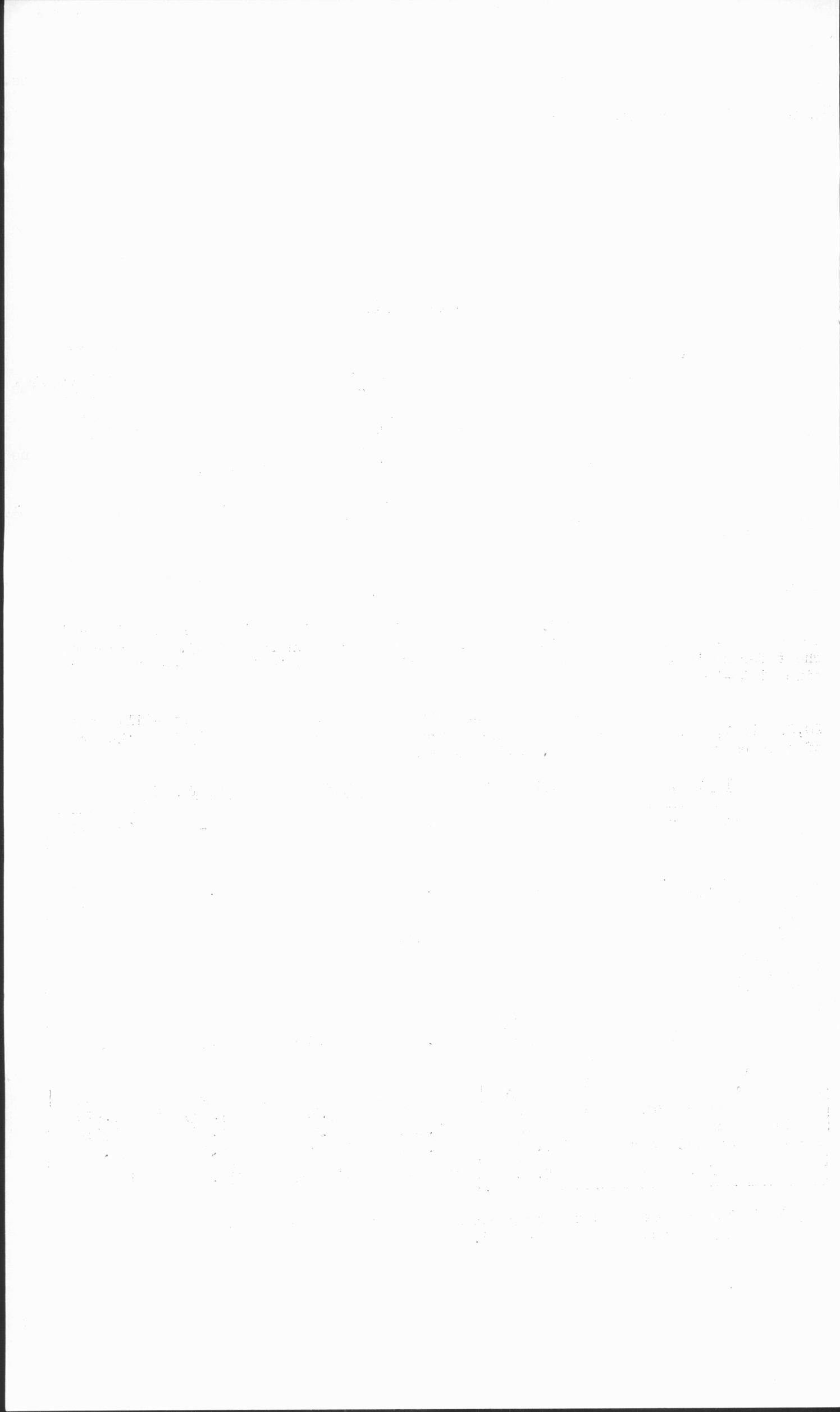
The area of 4,457,000 acres of cereals for grain during the 1963-64 season was the largest area since 4,556,000 acres were sown in 1932-33. The area of wheat for grain in 1963-64 was almost double the area sown in 1958-59 and the greatest since 1938-39.

The area of sown pasture from 1920 to 1950 increased steadily from 20,000 to 1,066,000 acres but has since increased very rapidly. In 1963-64 the area of sown pasture was a record 5,574,000 acres.

TABLE 1 - AREA AND UTILIZATION OF RURAL HOLDINGS, SOUTH AUSTRALIA

Particulars	1959-60	1960-61	1961-62	1962-63	1963-64
'000 Acres					
Cereals for grain	3,383	4,083	3,856	4,093	4,457
Field peas (grain)	27	26	29	32	30
Hay	245	393	209	288	358
Green forage	261	313	273	367	378
Vineyards	57	57	58	58	59
Orchards	37	38	38	41	42
Vegetables (a)	16	17	17	17	16
Other crops	33	39	29	36	40
Total crops	4,059	4,966	4,509	4,932	5,380
Sown pastures -					
Lucerne	341	432	516	563	595
Clover & other	3,275	4,166	4,729	4,795	4,979
Fallow land	726	1,045	1,188	1,158	1,114
Balance of holdings	147,036	145,847	145,955	145,249	146,837
Total area	155,437	156,456	156,897	156,697	158,905

(a) Includes areas of potatoes grown for seed but excludes areas of other vegetables grown for animal forage or seed.



RURAL
EMPLOYMENT

The following table shows for each of the last three years the number of persons employed in March and the value of wages paid (including keep where applicable) during the twelve months ended 31st March.

TABLE 2 - RURAL EMPLOYMENT (a), SOUTH AUSTRALIA

Particulars	1962		1963		1964	
	Males	Females	Males	Females	Males	Females
Permanent workers -						
Owners, occupiers, etc.	24,061	1,122	23,748	1,018	23,553	717
Unpaid relatives	1,734	462	1,696	413	1,396	204
Paid employees	7,947	499	7,890	460	8,268	501
Wages paid	£'000	5,863	229	6,054	229	6,418
Temporary workers (b) -						
Paid employees	15,140	4,661	14,106	4,715	12,496	5,339
Wages paid (c)	£'000	4,185	401	4,366	417	4,533

(a) Excludes females engaged mainly in domestic duties and other workers engaged only part time.

(b) Working full time during period of engagement.

(c) Excludes payments for construction or development work.

ARTIFICIAL
FERTILIZERS
USED

The increases in the area under crop and the area of sown pastures in 1963-64 were matched by corresponding changes in areas fertilized (see Table 4). Of the 227,000 tons of superphosphate used on crops 18,000 tons contained trace elements while 38,000 tons with trace elements were included in the 225,000 tons used on pastures. There has been very little change in recent years in the proportion of area under crop fertilized and in the quantity of fertilizer per acre applied to crops and pasture.

TABLE 3 - PRINCIPAL CROPS AND PASTURES FERTILIZED, SOUTH AUSTRALIA, 1963

Particulars	Area Fertilized	Fertilizers Used		Total per Acre
		Superphosphate	Other	
	Acres	Tons	Tons	Lb.
Wheat (all purposes)	2,752,719	125,952	1,059	103.4
Vegetables	12,116	3,208	3,412	1,223.9
Fruit and vines	52,382	3,835	5,982	419.8
Other crops	1,971,241	94,129	1,328	108.5
Total crops	4,788,458	227,124	11,781	111.8
Pastures	3,992,992	224,911	1,767	127.2
Grand total	8,781,450	452,035	13,548	118.8

TABLE 4 - CROPS FERTILIZED AND PASTURES TOP-DRESSED, SOUTH AUSTRALIA

Particulars	Unit	1960	1961	1962	1963
Crops fertilized	'000 acres	4,326	4,063	4,415	4,788
Fertilizer used	ton	209,387	206,047	221,011	238,905
Cropped area fertilized	%	87.1	90.1	89.5	89.0
Fertilizer per acre	lb.	108.4	113.6	112.1	111.8
Pastures fertilized	'000 acres	3,300	3,583	3,750	3,993
Fertilizer used	ton	189,704	198,186	209,551	226,678
Fertilizer per acre	lb.	128.8	123.9	125.2	127.2

AREA AND
YIELD OF
CROPS

Tables 5, 6, 7, and 8, show details of areas and yields of the principal crops grown in South Australia during 1963-64 compared with similar details for previous years.

The 1963-64 wheat harvest of 54 million bushels was a record in South Australia. The previous highest yield of wheat was 48.1 million bushels in 1931-32. Particulars of the cereal harvest are given in greater detail in the Bulletin "Cereals, Season 1963-64".

TABLE 5 - CEREALS AND HAY : AREA AND YIELD, SOUTH AUSTRALIA

Particulars	Unit	1959-60	1960-61	1961-62	1962-63	1963-64
Wheat -						
Area for grain	'000 acres	1,549	1,969	2,229	2,595	2,802
Yield	'000 bush.	11.929	46,396	33,854	38,339	53,971
Yield per acre	bush.	7.70	23.56	15.19	14.77	19.26
Barley -						
Area for grain	'000 acres	1,290	1,556	1,271	1,053	1,123
Yield	'000 bush.	11,857	42,233	21,292	18,005	24,337
Yield per acre	bush.	9.19	27.15	16.75	17.10	21.67
Oats -						
Area for grain	'000 acres	505	512	324	416	501
Yield	'000 bush.	2,504	11,478	4,391	5,770	9,149
Yield per acre	bush.	4.95	22.41	13.57	13.88	18.27
Rye -						
Area for grain	'000 acres	37	46	32	29	31
Yield	'000 bush.	125	264	167	144	153
Yield per acre	bush.	3.35	5.73	5.18	4.92	4.88
Field Peas -						
Area for grain	'000 acres	27	26	29	32	30
Yield	'000 bush.	58	358	256	392	490
Yield per acre	bush.	2.17	13.71	8.93	12.10	16.25
Hay (all kinds) -						
Area	'000 acres	245	393	209	287	358
Yield	'000 tons	206	616	286	406	488
Yield per acre	ton	0.84	1.57	1.37	1.41	1.37

TABLE 6 - VEGETABLES (a) : AREA AND PRODUCTION, SOUTH AUSTRALIA

Vegetable	Acres		Unit	Yields	
	1962-63	1963-64		1962-63	1963-64
Beans - French	292	255	bush.	59,163	57,723
Beetroot	112	94	ton	918	806
Cabbage	394	366	doz.	173,472	171,855
Carrots	292	315	ton	4,118	4,064
Cauliflowers	495	484	doz.	189,746	174,741
Celery	340	289	crate	213,960	181,600
Lettuce	416	425	case	226,011	227,397
Melons	412	347	ton	1,627	1,782
Onions	944	930	ton	8,531	8,736
Parsnips	65	65	ton	658	676
Peas - Green	4,597	4,851	bush.	367,834	345,292
Potatoes (b)	5,918	5,459	ton	53,253	51,195
Pumpkins etc.	775	871	ton	4,171	5,477
Tomatoes	1,300	1,180	bush.	731,324	691,525
Turnips	208	205	ton	1,786	1,976
All other	527	377	..	..	..
Total	17,087	16,513	..	..	..

(a) Vegetables grown for human consumption. Excludes vegetables grown for animal forage or seed (see also footnote (b)).

(b) Includes potatoes grown for seed.

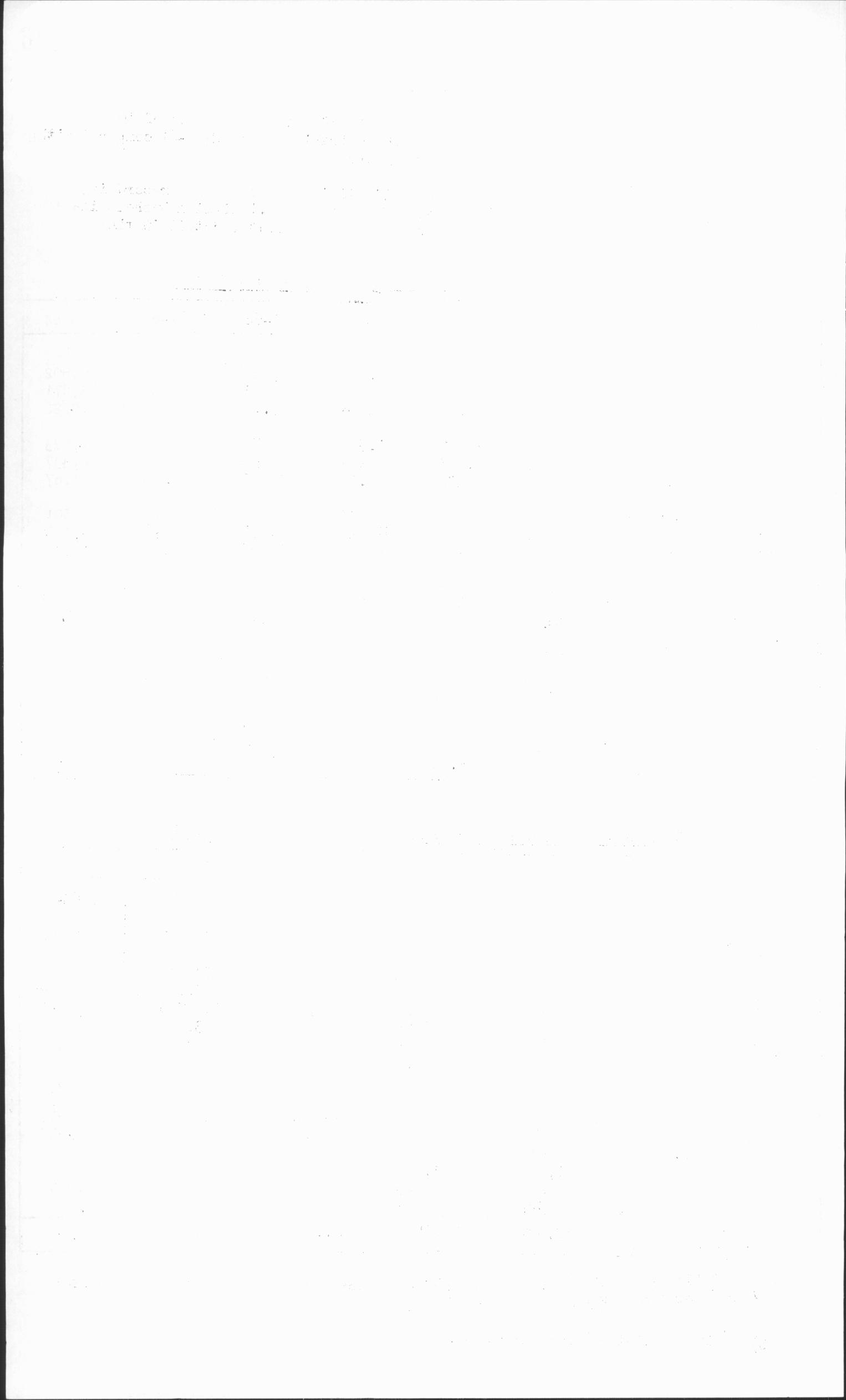


TABLE 7 - VINEYARDS : AREA AND PRODUCTION, SOUTH AUSTRALIA

Particulars	Acres Bearing		Unit	Yield	
	1962-63	1963-64		1962-63	1963-64
Vines -					
Wine grapes	39,764	40,678	ton	116,081	145,638 (b)
Table grapes	230	232	ton	1,078	969
Drying grapes	12,698	12,213	ton	47,649	61,040
Total	52,692	53,123		164,808	207,647
Produce -					
Wine (a)	..	..	'000 gal.	20,785	27,189 (b)
Dried fruit -					
Currants	..	..	cwt	52,140	91,000 (b)
Sultanas	..	..	cwt	187,420	240,000 (b)
Raisins	..	..	cwt	32,720	17,800 (b)

(a) Excludes fortifying spirits added. (b) Preliminary.

The total area of orchards has been increasing steadily in recent years, and records have been established in each year from 1956-57 (33,998 acres) to 1963-64 (41,686 acres). In 1963-64 record yields of apricots and pears were obtained.

TABLE 8 - ORCHARDS : BEARING TREES AND YIELD, SOUTH AUSTRALIA

Variety	Bearing Trees		Unit	Yield	
	1962-63	1963-64		1962-63	1963-64
Almonds	294,753	293,605	cwt	15,198	16,541
Apples	558,919	543,726	bush.	1,495,841	1,340,863
Apricots	356,652	361,062	bush.	867,969	929,172
Cherries	50,968	48,728	bush.	35,329	54,454
Citrus -					
Lemons, limes	19,425	19,155	bush.	48,065	36,329
Navel oranges	330,096	332,198	bush.	1,269,307	1,032,022
Valencia oranges	337,771	355,786	bush.	1,201,299	1,018,290
Other citrus	56,254	58,200	bush.	257,678	233,526
Figs	11,012	10,343	bush.	11,614	14,793
Nectarines	15,466	14,474	bush.	32,385	21,862
Olives	36,197	37,863	cwt	(a) 8,671	(b)
Peaches	365,802	366,645	bush.	841,437	979,192
Pears	168,641	171,729	bush.	412,156	523,690
Plums, prunes	99,360	95,086	bush.	102,324	90,792

(a) Includes olives grown in parklands and reserves. (b) Not yet available.

BEEKEEPING

The production of honey and beeswax fluctuates considerably from year to year, depending upon seasonal conditions. The average yield of honey per productive hive increased from 81.3 lb. in 1962-63 to 154 lb. in 1963-64, and the 9,721,492 lb. of honey produced was the highest annual production since 1948-49 when the record of 10,906,372 lb. was obtained.

TABLE 9 - BEEKEEPING : HIVES AND PRODUCTION (a), SOUTH AUSTRALIA

Particulars	1959-60	1960-61	1961-62	1962-63	1963-64
Beekeepers	823	838	906	842	857
Productive hives	59,242	47,298	61,545	51,010	63,142
Unproductive hives	11,504	18,658	10,162	18,590	8,535
Honey lb.	7,220,602	4,442,217	8,404,895	4,147,215	9,721,492
Beeswax lb.	106,211	59,227	123,298	56,199	134,008

(a) Excludes particulars for producers having less than 5 hives.

LIVESTOCK

The following table shows details of numbers of and production from livestock. To 1963 cattle were classified under the headings Dairy cattle and Beef cattle but in 1964 they were classified as "Used for the production of milk" or "Used mainly for meat production". Because of the different method of classification used in 1964, the figures (except for total cattle) should not be compared directly with those in previous years.

TABLE 10 - LIVESTOCK : NUMBERS AND PRODUCTION, SOUTH AUSTRALIA

Particulars	1959-60	1960-61	1961-62	1962-63	1963-64
Stock at end of year -				'000	
Sheep	14,025	14,952	16,415	15,737	16,402
Cattle -					
Dairy cows (a)	170	170	183	190	(c)
Other dairy	70	77	92	91	(c)
Beef	260	313	385	398	(c)
Cows for milk production (b)	(c)	(c)	(c)	(c)	192
Other cattle for milk production	(c)	(c)	(c)	(c)	78
Cattle for meat production	(c)	(c)	(c)	(c)	424
Horses	30	27	26	25	(c)
Pigs	109	144	170	145	153
Poultry	1,857	1,966	2,132	2,029	2,159
Lambing (d) -					
Ewes mated	6,746	5,797	7,076	6,934	6,850
Lambs marked	5,245	4,192	5,644	5,443	5,402
Slaughterings (e) -					
Sheep	2,236	1,573	1,645	1,748	1,568
Lambs	1,663	1,211	1,495	1,718	1,428
Cattle and calves	238	174	201	254	279
Pigs	171	183	232	235	213
Production -				'000 Lb.	
Wool clip	180,236	162,876	192,205	189,854	194,787
Wool production (e)(f)	198,289	177,413	206,984	207,344	(g) 210,154
Butter (e)	14,151	15,610	16,861	16,608	(g) 16,791
Cheese (e)	24,483	28,345	32,835	33,967	(g) 34,307
Bacon and ham (e)	6,979	7,035	7,475	7,514	(g) 8,074
				'000 Gallons	
Milk (e)	78,484	87,030	95,504	95,378	(g) 96,016

(a) Includes cows, "in milk" and "dry", and "springing" heifers. (b) Includes house cows and springing heifers. (c) Not collected.
 (d) Calendar year first stated. (e) Year ended 30th June.
 (f) Includes wool exported on skins and dead and fellmongered wool. (g) Preliminary.

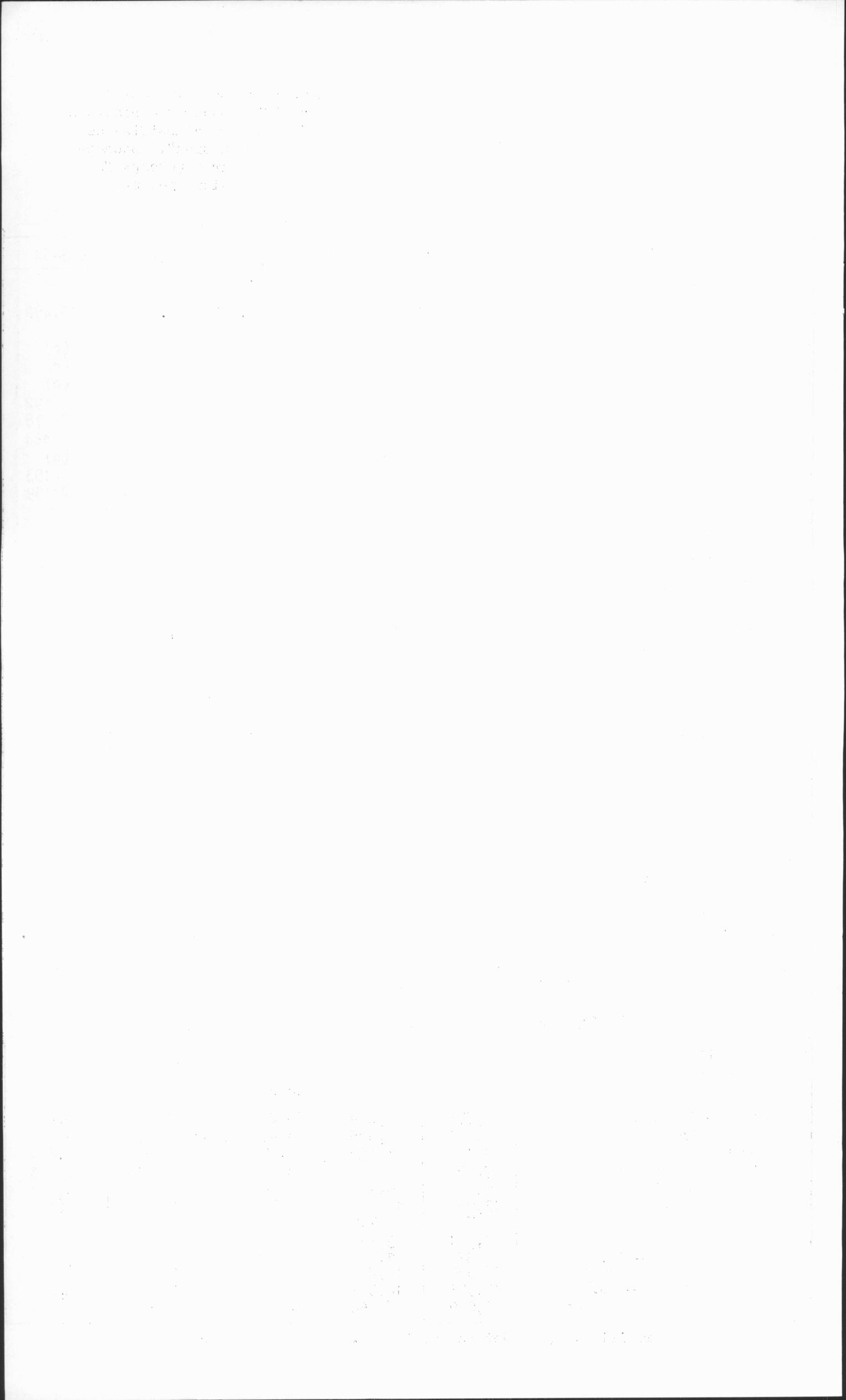
MACHINERY

Numbers of principal machines on rural holdings at 31st March in each of the last five years are shown in the following table:-

TABLE 11 - MACHINERY ON RURAL HOLDINGS, SOUTH AUSTRALIA

Particulars	1960	1961	1962	1963	1964
Number					
Tractors - Wheeled	25,774	27,269	28,289	(a) 28,509	29,841
Crawler	3,191	3,405	3,499	(a) 3,174	3,390
Rotary hoes	4,106	4,620	4,873	4,989	5,260
Fertilizer distributors	7,695	8,000	8,271	8,213	8,413
Drills and combines	19,608	19,760	20,086	20,316	20,358
Harvesters etc.	13,006	12,799	12,831	12,677	(b)
Hay presses	700	719	655	(c)	(c)
Hay balers	2,941	3,422	3,534	3,791	4,149
Milking machines - No. Units	7,575	7,589	7,707	7,553	7,438
Shearing machines - No. Stands	17,920	18,235	18,831	18,836	19,057
	13,973	14,317	14,532	14,595	14,885
	26,049	26,568	27,278	27,528	28,149

(a) Subject to revision. (b) Not yet available. (c) Not collected.



PRODUCTION
RECORDS

New records were established in 1963-64 for the production of wheat, apricots, pears, milk, cheese, the number of cattle, and for the area under sown pastures.

TABLE 12 - RURAL INDUSTRY : RECORD PRODUCTION, NUMBERS, ETC., SOUTH AUSTRALIA

Item	Unit	Quantity	Year	Item	Unit	Quantity	Year
Cereals -				Livestock			
Total yield -				Numbers -			
Wheat	'000 bush.	53,971	1963-64	Sheep	'000	16,415	1962
Barley	'000 bush.	42,233	1960-61	Cattle	'000	694	1964
Oats	'000 bush.	11,992	1958-59	Horses	'000	284	1913
Yield/acre -				Pigs	'000	190	1940
Wheat (a)	bush.	23.56	1960-61	Production -			
Barley (a)	bush.	28.27	1958-59	Wool -			
Oats (a)	bush.	24.93	1958-59	Clip	'000 lb.	192,205	1961-62
Vineyards -				Production	'000 lb.	206,984	1961-62
Grapes (b)	ton	215,736	1952-53	Lambs marked	'000	5,644	1961
Currants	cwt	209,140	1943-44	Milk	'000 gal.	96,016	1963-64
Raisins	cwt	117,505	1953-54	Butter	'000 lb.	22,938	1939-40
Sultanas	cwt	333,300	1943-44	Cheese	'000 lb.	(c) 34,307	1963-64
Wine	'000 gal.	30,831	1961-62	Bacon & ham	'000 lb.	11,735	1945-46
Orchards -				Honey	'000 lb.	10,906	1948-49
Almonds	cwt	17,937	1949-50	Area under -			
Apples	'000 bush.	1,750	1940-41	Crop	'000 acres	5,426	1930-31
Apricots	'000 bush.	929	1963-64	Fallow	'000 acres	2,607	1932-33
Oranges	'000 bush.	2,565	1962	Sown pastures	'000 acres	5,574	1963-64
Pears	'000 bush.	524	1963-64				

(a) Slightly greater yields per acre were recorded from small acreages over 100 years ago.
 (b) Includes fresh grapes used for drying.
 (c) Preliminary.

DIRECT
OVERSEA
EXPORTS

The following table shows the quantities of principal rural products exported overseas from South Australian ports during the last five years; OVERSEA EXPORTS VIA OTHER STATES ARE EXCLUDED.

TABLE 13 - RURAL PRODUCTS : PRINCIPAL OVERSEA EXPORTS, SOUTH AUSTRALIA

Commodity	Unit	1959-60	1960-61	1961-62	1962-63	1963-64(a)
Butter	'000 lb.	596	607	465	182	898
Cheese	'000 lb.	8,976	11,164	15,706	11,876	21,822
Eggs - In shell	'000 doz.	-	79	421	-	87
Not in shell	'000 lb.	55	546	864	62	54
Fruit, Dried - Currants	'000 lb.	5,171	6,346	5,225	3,025	4,114
Raisins	'000 lb.	14,802	12,959	14,510	16,050	22,888
Other	'000 lb.	4,341	4,147	3,427	4,106	5,024
Fresh - Apples	'000 bush.	364	245	324	363	426
Preserved, pulped	'000 lb.	16,745	14,503	21,130	14,884	28,308
Flour (including semolina)	ton	59,670	72,424	82,777	89,971	90,423
Grain - Wheat	'000 bush.	11,161	23,911	30,149	18,509	48,462
Barley	'000 bush.	13,705	22,427	24,768	6,875	13,454
Oats	'000 bush.	18	406	1,148	298	704
Honey	'000 lb.	2,517	3,140	3,069	2,067	1,786
Meat (lamb)	'000 lb.	12,145	10,079	5,465	15,336	8,828
Sheep skins	'000	4,213	2,977	3,161	3,375	3,219
Wine	'000 gal.	1,676	1,813	1,568	1,516	1,467
Wool - Greasy	'000 lb.	132,704	133,261	158,008	151,999	164,117
Other	'000 lb.	13,035	10,316	14,326	15,526	14,754

(a) Preliminary.

D.L.J. AITCHISON

